### PATENT COOPERATION TREATY

## **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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0 8 SEP 2004

							WIDO
Applicant's or agent's file reference P25535PC00  FOR FURTHER A				FOR FURTHER AC	TION See No Prellmi	otification of Tra nary Examination	nsmittar of International on Report (Form PCT/IPEA/416)
International application No. PCT/ZA 03/00182				International filing date (c 08.12.2003	day/month/year)		ty date (day/month/year) 2.2002
International Patent Classification (IPC) or both national classification and IPC							
F41A25/22							
Applicant							
DEN	NEL (I	PIY)	LTD et al.				
1.	This	interr	national preliminary exar	mination report has beer	prepared by t	his Internatior	nal Preliminary Examining
	Auth	ority a	and is transmitted to the	applicant according to	Article 36.		
2.	This	REP	ORT consists of a total of	of 5 sheets, including th	is cover sheet.		
		This	report is also accompa	nied by ANNEXES, i.e.	sheets of the d	escription, cla	ims and/or drawings which have
				basis for this report and n 607 of the Administrati			ations made before this Authority
	<b>T</b> 1	•					
	Ines	se ani	nexes consist of a total of	or sneets.			
	This		d cantaina indications va	leting to the following its			
3.	rms	repoi	n comains indications re	elating to the following ite	31115.	•	
	ı	$\boxtimes$	Basis of the opinion				
II □ Priority							
1	111	$\boxtimes$	Non-establishment of	opinion with regard to n	ovelty, inventiv	e step and inc	lustrial applicability
1	IV   Lack of unity of invention			ion			
	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					e step or industrial applicability;	
	VI			ed			
	VII   Certain defects in the international application						
	VIII		Certain observations	on the international appl	ication		
Date	e of sub	missi	on of the demand		Date of comple	tion of this repo	ort
				ı			
02.06.2004					07.09.2004		
Nam	Name and mailing address of the international				Authorized Offi	icer	des Prients
preliminary examining authority:  European Patent Office							1 July 19 19 19 19 19 19 19 19 19 19 19 19 19
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d					Ziegler, H-J		
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/ZA 03/00182

I. Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-7		as originally filed					
	Cla	ims, Numbers						
	1-17	7	as originally filed					
	Dra	wings, Sheets						
	1/3-		as originally filed					
2.	lang	ith regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.						
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	olication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).					
<ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application, t international preliminary examination was carried out on the basis of the sequence listing:</li> </ol>								
		contained in the international application in written form.						
		filed together with the international application in computer readable form.						
		I furnished subsequently to this Authority in written form.						
		I furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.					
1. The amendments have resulted in the cancellation of:								
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet contact report.)	ining s	uch amendm	ents must be referred to under item 1 and annexed to this				
6.	Add	ditional observations, if necessary:							
111.	Nor	-establishment of opinion wi	ith reg	ard to nove	ty, inventive step and industrial applicability				
1.	The obvi	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- bvious), or to be industrially applicable have not been examined in respect of:							
		the entire international application,							
☐ claims Nos. 15-17									
because:									
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):							
	☒	the description, claims or drawings (indicate particular elements below) or said claims Nos. 15-17 are so unclear that no meaningful opinion could be formed (specify):							
see separate sheet									
		the claims, or said claims Nos. are so inadequately supported by the description that no meaning could be formed.							
		no international search report	has be	en establish	ed for the said claims Nos.				
<ol> <li>A meaningful international preliminary examination cannot be carried out due to the failure of the nor amino acid sequence listing to comply with the standard provided for in Annex C of the Administ Instructions:</li> </ol>				nnot be carried out due to the failure of the nucleotide and dard provided for in Annex C of the Administrative					
	<b>□</b> `.	the written form has not been furnished or does not comply with the Standard.							
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.				
٧.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
1.	Stat	utement							
	Nov	relty (N)	Yes: No:	Claims Claims	1-14				
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-14				
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1-14				

2. Citations and explanations

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see separate sheet

### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item III

It is not clear which technical features should be included in claims 15-17 (Art.6 PCT).

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-4483235 D2: US-A-4168049

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows a gun tube support assembly, including a bush housing (10) and a cradle bush (11) for the bush housing for receiving and supporting the gun tube.

The subject-matter of claim 1 differs from this known support in that it is comprised of a plurality of support sections arranged annularly around a gun tube, and in that it further comprises a damping means sandwiched between the bush housing and cradle bush.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention is to increase firing accuracy and lifespan of the gun.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) because a segmented bush housing is not disclosed in the prior art. The bush housing in D2 (ref. 32) is a unitary ring. Damping means are disclosed in D2. However, the mount shown in D2 is not a cradle bush: the barrel is fixed in the mount and can only widen radially. In axial direction it is fixed.

Claims 2-14 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

The invention is industrially applicable.